

Claims:

1. A transceiver module assembly comprising:
  - a printed circuit board;
  - a plurality of transceiver modules;
  - a plurality of electrical connectors adapted to connect between the plurality of transceiver modules and the printed circuit board;
  - a shielding cage assembly mounted to the printed circuit board for receiving the transceiver modules and the electrical connectors therein, while the shielding cage assembly, the transceiver modules and the electrical connectors are grounded with the printed circuit board, the shielding cage assembly comprising:
    - at least one shielding cage;
    - a spacer; and
    - a hanger electrically grounding with the printed circuit board for providing EMI suppression; wherein
  - the at least one shielding cage and the spacer are mechanically retained in the hanger, and the spacer mechanically engages with the shielding cage for spacing a level to the shielding cage for good air ventilation therethrough.
2. The transceiver module assembly as claimed in claim 1, wherein the at least one shielding cage includes an upper shielding cage and a lower shielding cage.
3. The transceiver module assembly as claimed in claim 2, wherein the upper shielding cage and the lower shielding cage are placed belly-to-belly, and the spacer is disposed between the upper and lower shielding cage.
4. The transceiver module assembly as claimed in claim 2, wherein the upper shielding cage and the lower shielding cage are electrically grounded to each other through the spacer.

5. The transceiver module assembly as claimed in claim 1, wherein the spacer defines at least one hole for freely flowing of air.
6. The transceiver module assembly as claimed in claim 2, wherein a plurality of upper and lower dividing walls is respectively inserted into the upper and lower shielding cages to form a plurality of channels therein.
7. The transceiver module assembly as claimed in claim 6, wherein each of the upper and lower dividing walls is made of conductive material.
8. The transceiver module assembly as claimed in claim 6, wherein each upper dividing wall includes a plurality of retaining tabs for retaining to the hanger.
9. The transceiver module assembly as claimed in claim 6, wherein each lower dividing wall includes a plurality of mounting pins for being received in the printed circuit board.
10. The transceiver module assembly as claimed in claim 6, wherein a plurality of through holes is defined through the spacer to receive mounting pins respectively extending from the upper and lower dividing walls.
11. The transceiver module assembly as claimed in claim 1, wherein the at least one shielding cage is made of conductive material.
12. The transceiver module assembly as claimed in claim 1, wherein the spacer is made of electrically and thermally conductive material.
13. The transceiver module assembly as claimed in claim 1, wherein the hanger is made of conductive material.
14. A shielding cage assembly comprising:
  - a lower shielding cage and an upper shielding cage, which are stacked belly-to-belly;
  - a spacer disposed between the lower and upper shielding cages for providing good air ventilation and providing electrical and thermal conductivities for EMI continuity and heat dissipation in the shielding cage assembly; and

- a conductive hanger covering the lower and upper shielding cages and the spacer for providing EMI suppression; wherein
- a plurality of electrical connectors are provided around rear portions of said lower and upper shielding cages.
15. The shielding cage assembly as claimed in claim 14, wherein the upper shielding cage and the lower shielding cage are electrically grounded to each other through the spacer.
16. The shielding cage assembly as claimed in claim 14, wherein the spacer defines at least one hole for freely flowing of air.
17. The shielding cage assembly as claimed in claim 14, wherein a plurality of upper and lower dividing walls is respectively inserted into the upper and lower shielding cages to form a plurality of channels therein.
18. The shielding cage assembly as claimed in claim 17, wherein each upper dividing wall includes a plurality of retaining tabs for retaining to the hanger.
19. The shielding cage assembly as claimed in claim 17, wherein a plurality of through holes is defined through the spacer to receive mounting pins respectively extending from the upper and lower dividing walls.
20. A shielding cage assembly comprising:
- a printed circuit board;
  - a U-shaped hanger located upon the printed circuit board and cooperating with the printed circuit board to form therein a cavity under a top wall of the hanger along a front-to-back direction, said cavity defining a first width along a lateral direction perpendicular to said front-to-back direction;
  - a unitary shielding cage defining a second width along said lateral direction;
  - and

a plurality of vertical dividing walls disposed in the shielding cage and separating said shielding cage into a plurality of transceiver receiving spaces; wherein

each of said dividing walls includes at least one retaining tab extending through a top face of the shielding cage to not only fasten the corresponding dividing wall to the shielding cage but also fasten the corresponding dividing wall to the hanger so as to have said shielding cage retainably located in the cavity.

21. The assembly claimed in claim 20, wherein the first width is substantially equal to the second width.

22. The assembly claimed in claim 20, wherein said retaining tab further extends through the top wall of said hanger.